

### Agenda

- Welcome Address
  - Darrell Young, Deputy Director, DOT Harbors Division
- TEMY Award Presentations
  - Spencer Yim, Environmental Section Head
- Administrative Remarks
  - Spencer Yim, Environmental Section Head
- DOT Compliance Audit
  - Spencer Yim, Environmental Section Head
- Stormwater Awareness Training Part 1
  - Vijaya Tummala, EnviroServices & Training Center, LLC

#### 10 min Break

- Stormwater Awareness Training Part 2
  - Vijaya Tummala, EnviroServices & Training Center, LLC
- Questionnaire Distribution
- Guest Speaker
  - Jason Mehlinger, Department of Land and Natural Resources (DLNR)
     Division of Aquatic Resources (DAR)
- Training Questionnaire and Evaluation







# Honorable Mentions

2018 Tenant
Environmental Manager
of the Year

Ms. Sara Daniels
Asphalt Hawaii

Mr. Freedom Dennis FOSS Maritime Company

Mr. Frank Roznerski Hawaii Stevedores, Inc.

Mr. Dane Wurlitzer Hawaiian Cement



# Honorable Mentions

2018 Tenant
Environmental Manager
of the Year Page

Mr. Joshua Ibrao Jems Enterprises, LLC (aka Hawaiian Ice Co)

> Mr. Stephen Hinton Marisco, Ltd.

er Mr. Neil Kanemoto Pacific Ocean Producers, Inc.

> Mr. Tor Harris Sea Engineering, Inc.

# Honorable Mentions

2018 Tenant
Environmental Manager
of the Year

#### Mr. Kern Nishioka

State of Hawaii Department of the Attorney General

#### Mr. Daniel Otani

United Fishing Agency, Ltd.

Mr. Freedom Dennis

Young Brothers, Ltd



#### 2018

# Tenant Environmental Manager of the Year

Congratulations to

Mr. Ross Barnes

**University of Hawai'i Marine Center** 





# **DOT Compliance Audit**

- Required by 2014 Consent Decree
- Covers Harbors, Airports, Highways
- Program Element Audit Reports (PEAR)
- ENV Consultant: Kennedy/Jenks Consultants



### **Audit Schedule**

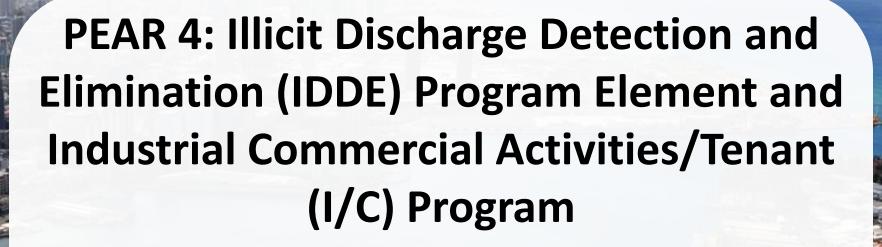
- 1. Post-Construction / Permanent Best Management Practices
- 2. Construction Site Runoff Control
- 3. Public Outreach / Public Involvement
- 4. Illicit Discharge Detection and Elimination (IDDE) Program Element and Industrial Commercial Activities/Tenant (I/C) Program
- 5. Pollution Prevention / Good Housekeeping Program
- 6. Staffing, Funding, Organizational Structure, Availability of Resources, and Storm Water Program Sustainability

2017												2018										2019												2020					
PEAR	NAU	FEB	MAR	APR	MAY	NUL	JUL	AUG	SEP	ОСТ	NOV	DEC	JAN	FEB	MAR	APR	MAY	NUL	JUL	AUG	SEP	ОСТ	NOV	DEC	JAN	FEB	MAR	APR	MAY	NOC	JUL	AUG	SEP	ОСТ	NOV	DEC	JAN	FEB	MAR
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### Harbors Findings from PEAR 1 - 3

- PEAR 1: One Potential Violation and Four Deficiencies
- PEAR 2: No Major Findings
- PEAR 3: One Potential Violation and Two Deficiencies





September 2018 – March 2019

# Stormwater Awareness Training Vijaya Tummala, P.E., CISEC

**EnviroServices & Training Center, LLC** 



# Stormwater Awareness Training Part 1 Outline

- Consent Decree
- Regulatory Background
- NPDES Permit Requirements
- Know Other Requirements & Regulations
- Storm Drain System
- Pollutants of Concern
  - Zinc in Stormwater: Galvanizing Business Solutions Video
- Inspection Success



### Consent Decree

- In November 2014, Harbors Division entered into a Consent Decree with DOJ/EPA/DOH
- Consent Decree available on Harbors website

http://hidot.hawaii.gov/harbors/files/2013/01/Consent-Decree.pdf

- Stormwater compliance with:
  - Clean Water Act
  - National Pollutant Discharge Elimination System (NPDES)
     Permits for Small Municipal Separate Sewer Systems (MS4)
     and Stormwater Management Plan (SWMP)

### Regulatory Background

- DOH administers the NPDES Small MS4 permits in Hawaii under HAR 11-55 Appendix K
- DOH issued general permits to DOT Harbors authorizing the discharges of stormwater and certain non-stormwater discharges from Harbor's MS4s
  - Honolulu Harbor permit HI 03KB482
  - Kalaeloa Barbers Point Harbor permit HI 03KB488
     HAR 11-55 Appendix K lists allowable discharges under these permits



### Allowable Non-stormwater Discharges

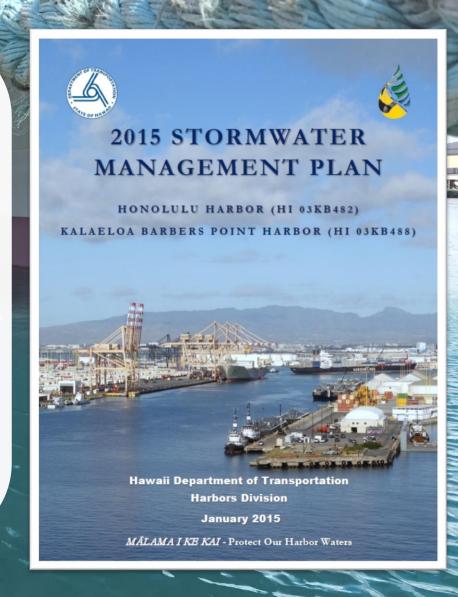
- Daily Operations
  - Water line flushing
  - Uncontaminated AC Condensate
  - Landscape irrigation
  - Discharges from potable water sources and foundation drains
  - Water from crawl space pumps and footing drains
- Groundwater (uncontaminated)
- Natural Origin
  - Springs
  - Diverted stream flows
- Emergencies
  - Discharge from fire fighting activities



# NPDES Permit Requirements

- Implementation of SWMP for MS4s at Honolulu and Kalaeloa Barbers Point Harbors
- SWMP currently being revised

http://hidot.hawaii.gov/harbors/files/ 2013/01/Final-SWMP-150325.pdf



# Know Other Requirements & Regulations

- 1. Industrial NPDES Permit
- 2. Harbors Washing Approval
- 3. Hazardous Waste
- 4. Universal Waste



### 1. Industrial NPDES Permit

- Administered by DOH (<u>HAR 11-55 Appendix B</u>) and allows discharge of stormwater associated with industrial activities such as:
  - Material Handling and Storage
  - Equipment Cleaning
  - Maintenance and Repair
  - Fueling
  - Washing
  - Sanding and Painting





### 1. Industrial NPDES Permits

- Conditions of the Permit
  - Stormwater Pollution Control Plan (SWPCP)
    - Includes BMPs that control pollutants generated
  - Stormwater Monitoring
  - Submittal of a Discharge Monitoring Report (DMR)
  - No violation of water quality (HAR 11-54, State Water Quality Standards)



### 2. Harbors Washing Approval

- All washing areas must be approved by Harbors Environmental Section
- Wash water must be collected and is <u>not</u> permitted to be discharged to the storm drain system or any surface water (e.g. Honolulu Harbor)

3. Hazardous Waste

- RCRA and HAR 11-260
- Record the quantities generated each month.
   Know your generator status!
- Have records available for inspectors

**Label** and **store drums** properly!



### 4. Universal Waste

- HAR 11-273
- Examples
  - Fluorescent lamps
  - Batteries
  - Anything with mercury
- Label container and include accumulation start date
- Dispose within a year

UNIVERSAL WASTE
SHIPPER
ADDRESS
CITY, STATE, ZIP
CONTENTS
ACCUMULATION START DATE
HW30AL @NMC

### Storm Drain System

### **Municipal Separate Storm Sewer System (MS4)**

 Publicly-owned conveyance or systems of conveyances (including but not limited to streets, ditches, catch basins, curbs, gutters, and storm drains) that is designed or used for collecting or conveying stormwater and discharges to surface waters.

## Storm Drain System

Stormwater picks up debris, chemicals, sediment and other pollutants.



Stormwater flows into a storm sewer system.



Collected stormwater eventually drains to the ocean through outfalls, with no treatment.







### **Pollutant**

Any type of material or waste that degrades water quality, public health, the environment or the beneficial uses of receiving waters.

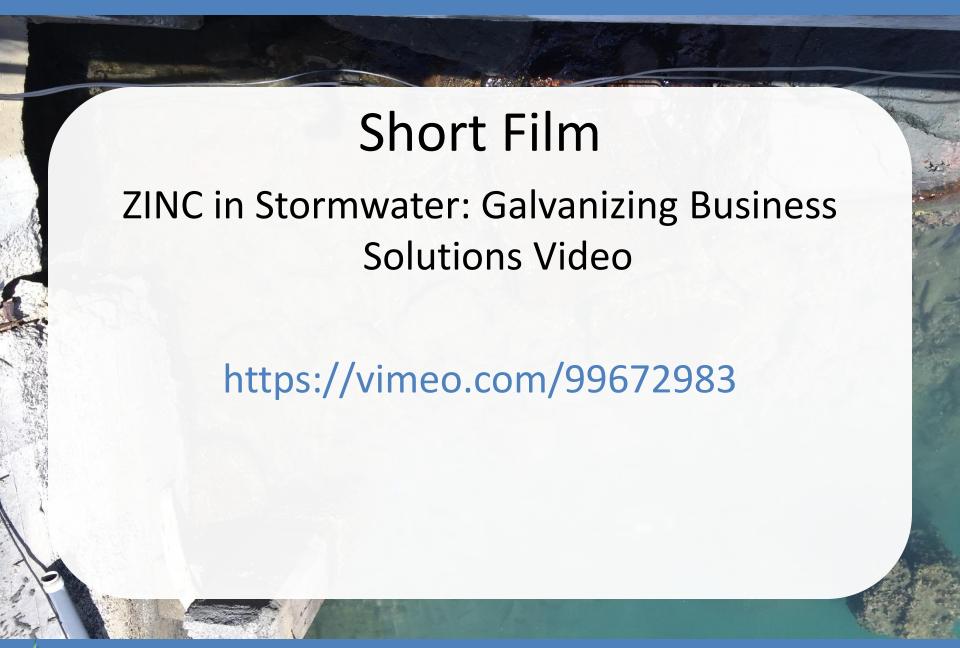


### Pollutants of Concern

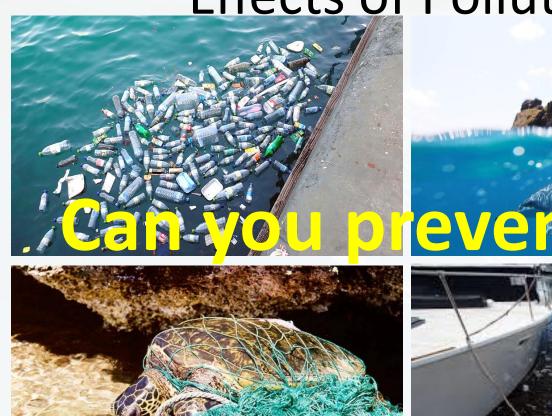
Stormwater is often the main cause of surface water pollution. Polluted waterways can lead to restrictions on boating, swimming, and fishing in recreational areas.

- Sediment
- Nutrients (leaves, trash, etc.)
- Bacteria and other pathogens
- Debris and garbage
- Chemicals and Hydrocarbons (insecticides, pesticides, paints, solvents, oil, automobile fluids)
- Metals (zinc, iron, aluminum)
- Polluted drinking water source





Effects of Pollution







### **Inspection Success**

#### Final Harbors Tenant Inspection Manual



State of Hawaii
Department of Transportation
Harbors Division
79 South Nimitz Highway
Honolulu Hawaii 96813-5898

August 2014

Version 9.0

PROTECT OUR OCEAN WATER - MĂLAMA I KE KAI

The EPA and DOH can inspect a tenant property at any time

Be Prepared!

Let's Work Together!

http://hidot.hawaii.gov/harbors/files/2013/01/2014-Tenant-Inspection-Manual\_Final1.pdf



### **Harbors Inspections**

#### Identify:

- How to reduce pollutants
- Share information between Harbors personnel and tenants

Tenants are inspected based on their risk ranking:



High risk ranked tenants are inspected every 6 months

Medium risk ranked tenants are inspected once a year

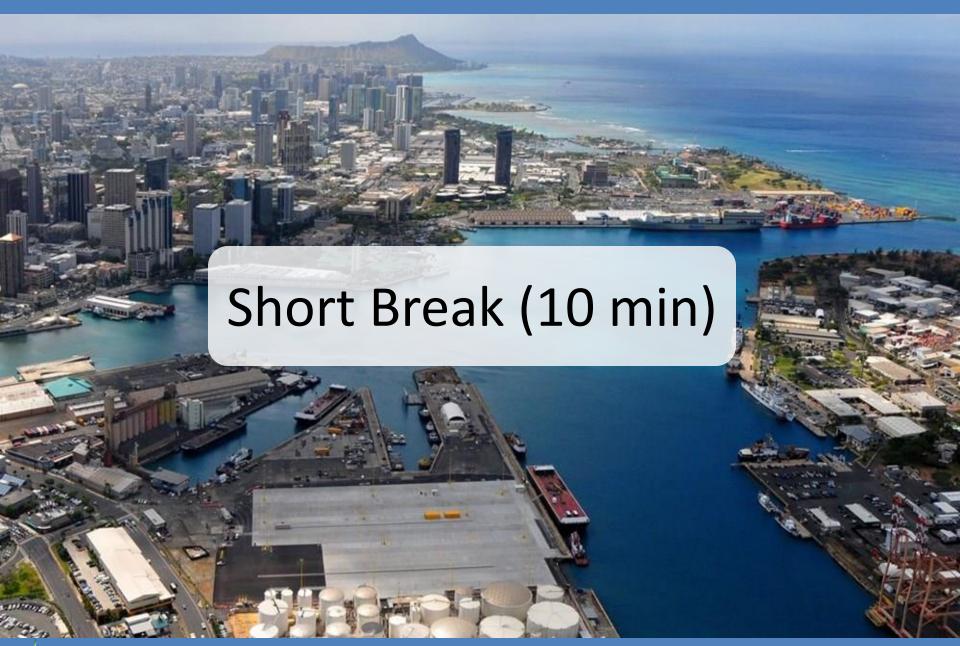
Low risk ranked tenants are inspected every five years



### General Inspection Items

- Paperwork (permits, plans, training logs, etc.)
- Storage and Handling (petroleum, waste, chemicals)
- Container Labels
- Fueling BMPs
- Washing BMPs
- Maintenance BMPs and record keeping
- Spill response BMPs and record keeping
- General Housekeeping BMPs





## Stormwater Awareness Training Part 2 Outline

- Best Management Practices (BMPs)
  - Stormwater Strategies: Purpose of Housekeeping Video
  - Stormwater Strategies: Sweeping BMPs Video
  - Stormwater Strategies: Washing and Wash Water Contamination Video
- Correct Deficiencies
- Escalating Enforcement
- Illicit Discharge
  - Illicit Discharge Video
- Allowable non-stormwater discharges
- Spill Response
  - Stormwater Strategies: Spill Scenario Video
- Construction Program and PBMPs
- Resources and Contacts
- Training Questionnaire and Evaluation

(Required to complete to get credit for class)



### Best Management Practices (BMPs)

#### What is a BMP?

- Structural device or system
- Operational or procedural practice
  - BMPs are specific to a facility's operation

#### Where are BMPs found?

- Facility SWPCP or BMP Plan
- DOT-Harbors Tenant Inspection Manual
- Harbors Stormwater Management Website
- Environmental Protection Agency BMP Menu



#### Common BMPs

- General BMPs for Business (Good Housekeeping)
- Storm Drain Inlet Protection
- Vehicle and Equipment Washing
- Vehicle and Equipment Fueling
- Material Delivery and Handling
- Solid and Hazardous Waste Management
- Outdoor Material Storage
- Building and Remodeling
- Building Power Washing
- Sidewalk and Walkway Power Washing



## **Good Housekeeping**

### Stormwater Strategies: Housekeeping, Purpose of Housekeeping

A video published by County of San Diego

https://www.youtube.com/watch?v=UxOam2GEVgQ

## General BMPs for Business (Housekeeping)



 Stored outside without secondary containment (this is an issue if the drum contains liquid)



Properly labeled as "empty"

## General BMPs for Business (Housekeeping)







Trash bins are covered

## **Good Housekeeping**

### Stormwater Strategies: Housekeeping, Sweeping

A video published by County of San Diego

https://www.youtube.com/watch?v=UxOam2GEVgQ

## General BMPs for Business (Housekeeping)



- Staining observed
- Facility should implement proper BMPs to prevent staining and should remove stains



 Utilizing a containment device, however the leak



## Vehicle and Equipment Washing

Stormwater Strategies: Housekeeping, Washing and Wash Water Contamination

A video published by County of San Diego

https://www.youtube.com/watch?v=UxOam2GEVgQ

## Vehicle and Equipment Fueling

- Fuel in a contained area when practicable.
- Protect storm drains during fueling.



## Solid and Hazardous Waste Management



- Designate a hazardous waste accumulation area at your facility.
- Store in a secured area to protect from damage
- Store under cover and within secondary containment



## Solid and Hazardous Waste Management



- universal waste are in designated areas, under cover, and within secondary containment
- Hazardous wastes should be stored in a secure area



Outdoor Material Storage



## Spill Kit





• Place spill kits in high risk areas

## Harbors Inspection Reports

#### Inspection Report includes

- 1. Checklist
- 2. Updated risk ranking
- 3. Photo log
- 4. Findings
  - Tenants are encouraged to fix minor discrepancies during inspections, otherwise tenants have 30 days to fix discrepancies.
  - Violations (Class I and Class II)

No.	Inspection Item	Yes	No	N/A	Remarks
	Storage				
1	SPCC Compliance: Facility with an aggregate shell capacity of 1,320			x	
	gallons or more of petroleum products.			^	
2	AST Containment: ASTs are situated over an impervious surface, have				
	adequate secondary containment and integrity protection, and containment			X	
	drain valves are kept locked.				
3	AST Overflow Protection: Bulk product ASTs are equipped with overflow			x	
	protection alarms or automatic shutdown pumps.		_	^	
4	AST Malfunction: Visible piping, tanks, and hoses in good condition (e.g.,			x	
	no exhibit signs of leakage, wear, or malfunction).				
5	Oily Equipment: Oily or leaking equipment is stored under cover or with drip	x			
_	pans. Drip pans are cleaned regularly.		_	_	
6	Storm Water Management: Storm water accumulation in secondary			l	
	containment is minimized, managed, properly disposed of, and logged.			Х	
7	Salvaged Equipment/Vehicle: Fluids and batteries are removed from	_	$\vdash$	-	
1	salvaged Equipment/vehicle before storage.		X		
8	Salvaged equipment/venicle before storage.  Outdoor Material Storage: Outdoor storage areas have coverings that				Metal parts should
	prevent contact of these items with storm water. Materials are kept above		x		covered until they
	the ground higher than the level of runoff.		^		disposed of.
9	Labeling: Containers are properly labeled.				Label empty drums and
	Labeling, Containers are properly labeled.		X		spill kit.
10	Compatibility: Containers are stored in an organized manner, compatible				Same as above.
	with other stored materials, properly labeled, and not stored past allowable		X		
	holding times.				
11	EPCRA: The facility is required to report chemical inventory (Tier II) and/or			x	
	Toxic Release Inventory (TRI) report.			X	
	Fueling				•
12	Fueling BMPs: Fueling area engineering controls and BMPs are effective in				
	preventing storm water run on/off.			X	
13	Fueling Inspections: Equipment in fueling areas is in good condition (e.g.,				
	do not exhibit signs of leakage, wear, or malfunction). An inspection log is			X	
	available for inspection.				
	Washing				
14	Vessel/Vehicle/Equipment Washing: Vehicle or equipment washing is			x	
	conducted with approval from HDOT Harbors.			×	
15	Hand Washing: Hand or dish washing is conducted over a sink that is	x			
	plumbed to sanitary sewer or is disposed of appropriately.	^			
	Vessel/Vehicle/Equipment Maintenance				
16	Vessel/Vehicle/Equipment Maintenance Area: Maintenance is conducted				
	regularly in a designated area, preferably covered or away from storm				
	drains.				
17	Preventive Maintenance: Preventive maintenance is performed on vehicles				
	and equipment to prevent leaks. Vehicle and equipment are monitored	X			
	periodically for leaks and drip pans are used.				
	Maintenance Logs: Records are kept.		Х		
19	Parts Washer: Parts washer fluid is disposed appropriately with an	x			
	authorized disposal contractor.	^			
	Material Handling				
20	Material Handling Area: Loading areas are free of stains and pavement is				
	in good condition that would indicate good material handling practices.	X			
	Spill Response		_	_	
	Spills and Stains are cleaned thoroughly.	X			
24					
	Spill Kits are kept in all high risk areas and are refilled as needed.	X			

Page 1 of 2 HDOT HAR-EE Form SWCTI\_Checklist (9/

Tenants can provide photos to document corrective actions



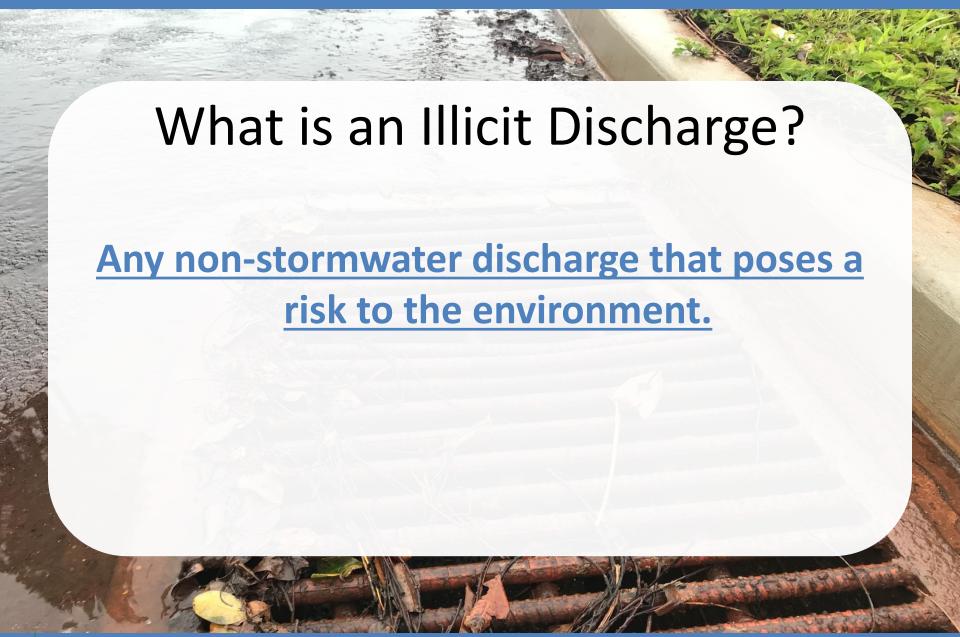


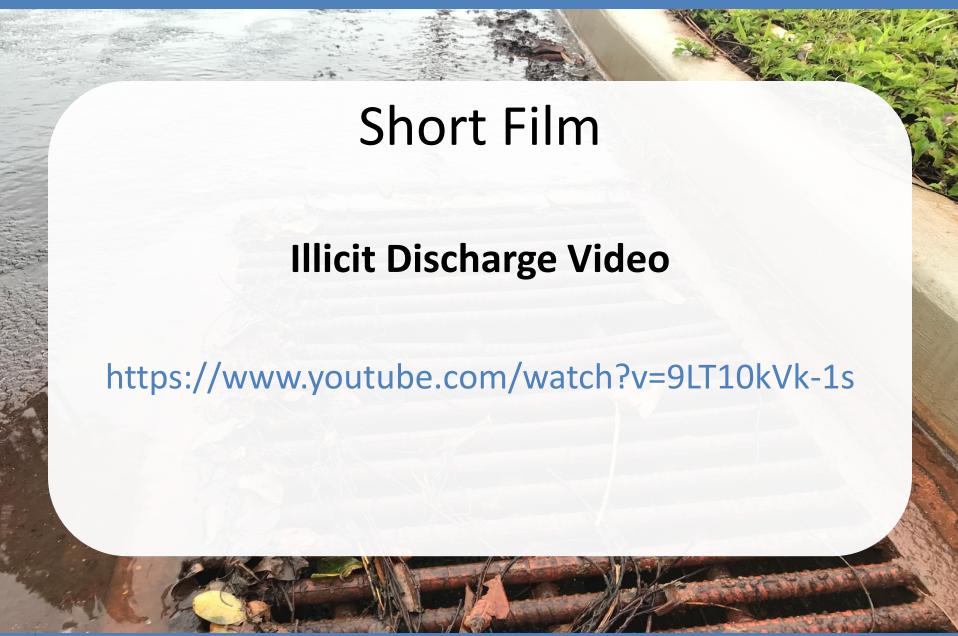
## **Escalating Enforcement**

An environmental violation may lead to penalties

- 1. Oral or Verbal Warning
- 2. Written Warning (Inspection Report + Letter)
- 3. Notice of Apparent Violation
- 4. Notice of Finding of Violation and Order
- 5. Termination of Lease / Revocable Permit









## Spill Response

- 1. Assess the Risk
- 2. Select PPE
- 3. Contain the Spill
- 4. Stop the Source
- 5. Clean-up
- 6. Decontaminate and Dispose of Wastes
- 7. Complete Required Reporting Documents



## Spill Prevention and Response

Stormwater Strategies: Housekeeping, Spill Scenario

A video published by County of San Diego

https://www.youtube.com/watch?v=UxOam2GEVgQ

## Illicit Discharge and Spill Reporting

Notify Harbors of spills.

Harbor Traffic Control Unit (24/7): 808-587-2076

**Harbors Environmental Hotline: 808-587-1962** 

- What to report:
- Location of incident, date and time
- Description of incident
- Responsible party & cause of incident
- Type of media that received the discharge





## Construction Site Runoff Control Program

- Tenant construction projects need approval from Harbors and must obtain all necessary permits
- Harbors will ensure temporary BMPs are sufficient in the design review phase
- Harbors will inspect non-exempt project sites
- Tenant is ultimately responsible for the project



## Review and Approval Requirements

- Notification Form for projects less than one acre
   OR
- Construction Design Review Checklist
- Completed NPDES application
- Construction BMP plan sheet and details
- Stormwater Pollution Prevention Plan (SWPPP)



### Compliance and Inspections

#### **Harbor Inspections**

- Initial Inspection
  - Ensure BMPs are installed properly
  - Deficiencies must be corrected prior to the start of other construction work
- Regular Inspections
  - October April (Wet Season): Every two weeks
  - May September (Dry Season): Every two months
  - Inspectors will provide the contractor with a report within five
     (5) calendar days
  - Deficiencies must be corrected or enforcement will commence



### Compliance and Inspections

#### **Harbor Inspections**

- Final Inspection
  - When all the following conditions are met:
    - Construction is inactive
    - Exposed soil has been stabilized
    - Remaining activities have minimal impact on stormwater runoff
  - Document the conditions are met
  - Ensure that permanent BMPs are properly installed, if applicable
  - Deficiencies must be corrected

#### Post-Construction BMP

Projects that result in land disturbance of 1 acre or more (regulated projects) <u>must</u> include post construction BMPs.



#### Post-Construction BMP

- Low Impact Development (LID)
  - "mimic predevelopment site hydrology by using site design techniques that store, infiltrate, evaporate, and detain runoff..."
  - Goal: Keep stormwater on-site and treat it as a resource instead of a waste.
- Source Control
  - Goal: Keep potential pollutants from coming into contact with stormwater
- Treatment Control
  - Goal: Remove pollutants from stormwater runoff.



# You can prevent stormwater pollution!

- Consider stormwater impacts from your daily operations
- Practice Good Housekeeping Measures
- Implement Source Control BMPs
- Respond to spills promptly
- Report illicit discharges and spills









Harbors Stormwater Website:

http://hidot.hawaii.gov/harbors/library/storm-water-management/

- Harbors Division Environmental Contacts:
  - Report Suspected Illicit Discharge: 587-2076 (Harbor Traffic Control) or 587-1960 (Environmental Hotline)
  - Spencer Yim, P.E., 587-1963 Spencer.K.Yim@hawaii.gov
  - Joy Zhang, P.E.: 587-1960, ying.j.zhang@hawaii.gov
  - Michele Freitas: 587-1976, michele.gn.freitas@hawaii.gov
  - Mitchell Martello: 587-1969, mitchell.a.martello@hawaii.gov
- Harbors Division Property Management Contacts:
  - Calvert Chun, 587-1944, calvert.jt.chun@Hawaii.gov
  - Eric Leong, 587-1943, eric.leong@Hawaii.gov
  - Carl Young, 587-1945, carl.g.young@hawaii.gov



#### "Mālama i ke kai" - Protect Our Harbor Waters



#### 2018 HDOT Harbors Tenant Training Questionnaire



Name:	Company:	Date:
a. Condensat Rain water c. A non-stor	mwater discharge that poses a environment	5. True or False? In State of Hawaii, anything that goes into a regular storm drain inlet will end up in the ocean without treatment.  a. True b. False
be discharged a. Equipment b. Fish entrain	following are not permitted to into the storm drain? t washing water ils and spilled chemicals and paint products above	A major source of Zinc pollution comes from     a. Coating on fences     b. Tires     c. Motor oil     d. All of the above
suspected at your a. If on Oahu Unit at (80 b. Call Harbo (808) 587-	s, call Harbor Traffic Control 08) 587-2076. ors Environmental Hotline at	<ul> <li>7. Which of the following are good examples of BMPs?</li> <li>a. Maintain equipment regularly</li> <li>b. Promptly responding to a spill or leak</li> <li>c. Using a drip pan underneath an oil-containing equipment</li> <li>d. All of the above</li> </ul>
Management F a. Diesel is n b. Tanks are with secon	properly labeled and equipped dary containment.	8. True or False? Storm drain inlet (in maintenance area) fitted with hydrocarbon boom is considered a good post-construction BMP.  a. True False
d. b and c.	tored under cover.	9. The first step of spill response is to Complete the required report Assess the risk Confine the spill d. Stop the source e. Select PPE
LINE TO LINE T		10. True or False? An environmental violation may lead to criminal penalties.  True. False.



